

15-1957-7-9174

**Platform Folds of Stravropol', Their Types, and Distinctive Features (Cont.)**

consists of shales and marls of the El'burganskiy horizon (25 m), shales of the Goryachego Klyucha series (150 m), and cherts and marls of the Abazinskiy series (25 m); farther north, at Nevinnowyssk, the entire Paleocene section (640 m) is composed of sands and sandstones which increase even more in thickness towards the north (up to 850 m); the Eocene consists of marls of the Zelenyy series, giving way northward to sandstones and shales (70-200 m), marls of the Kumskiy series (8-60 m), and marls of the Belyy series (from a few meters to 118 m); the Khadumskiy horizon is represented by bituminous clays (60-145 m); the Maykopskiy series is here clay shale (500-1,000 m); the middle Miocene contains clays of the Tar-khanskiy horizon (2.5 m), sands, clays, and marls of the Chokrakskiy layers (7-300 m), and Karaganskiy and Konkskiy clays with layers of limestone (80 m); and the Sarmatian stage is represented by gypseous clays of the lower Sarmatian (90 m), clays and marls of the Mamayskiy horizon (7,010 m), clays and

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## Platform Folds of Stavropol', Their Types, and Distinctive Features (Cont.)

marls of the Kriptomakrovyy layers (80 m), limestones, sandstones, and clays with typical middle Sarmatian fossils (up to 150 m), and sands, clays, and limestones of upper Sarmatian age (up to 80 m). Inasmuch as the Paleozoic rocks are strongly crumpled, it is suggested that the entire Predkavkaz'ye (cis-Caucasian) area was a geosynclinal region in the Paleozoic until the end of the Carboniferous. Cretaceous and Tertiary sediments formed under platform conditions; during this time Stavropol' was an arch, separated by shelves from the surrounding basins (see Figure). The Stavropol' arch was bounded on the southwest by the Belomechetskaya syncline. At present more than 20 anticlinal folds occur in the Stavropol' region. The principal Stavropol' anticline, as formerly distinguished, consists of several independent uplifts and asymmetrical, elongated anticlines with the southern limbs dipping  $6^{\circ}$ - $9^{\circ}$  and the northern  $2^{\circ}$ - $4^{\circ}$ . Only the Nadzornenskiy and Surkul'sko-Kumskiy anticlines have steeper northern limbs ( $56^{\circ}$  and  $25^{\circ}$  respectively) and gentler southern limbs ( $3^{\circ}$ - $5^{\circ}$ ). The

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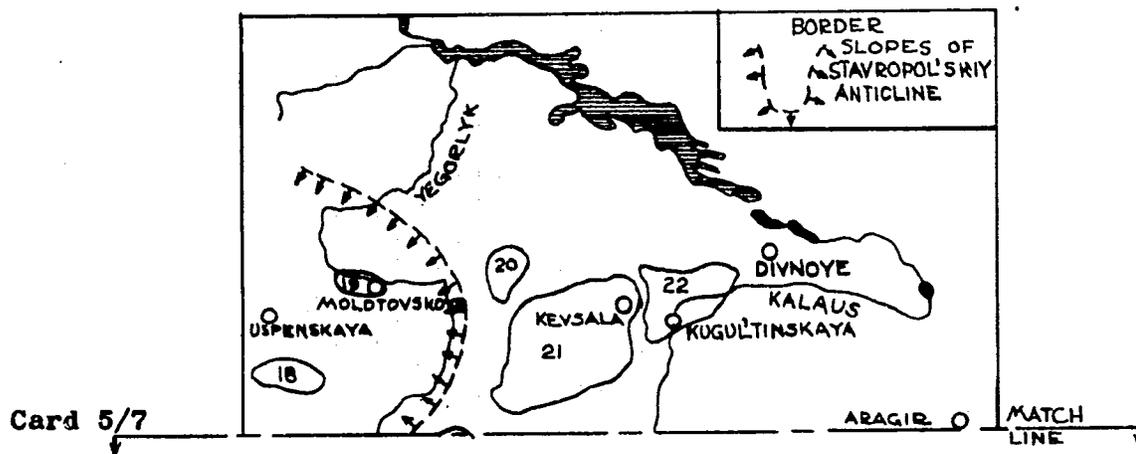
**Platform Folds of Stravropol', Their Types, and Distinctive Features (Cont.)**

northern uplifts have equant outlines with axial ratios no greater than 2:1 and limbs that slope gently and symmetrically with dips no greater than  $1.5^{\circ}$ . The variable thickness and the lithology of the Cretaceous and Tertiary sediments indicate that all the known uplifts developed over a long period, synchronously with the accumulation of the sediments. The cover of the Kumskiy series indicates that the magnitude of the uplifts, and of the synclines on the southwestern part of the arch, reaches 1,000-1,200 m. On the central and northern parts of the arch the synclines are gently sloping and indistinct.

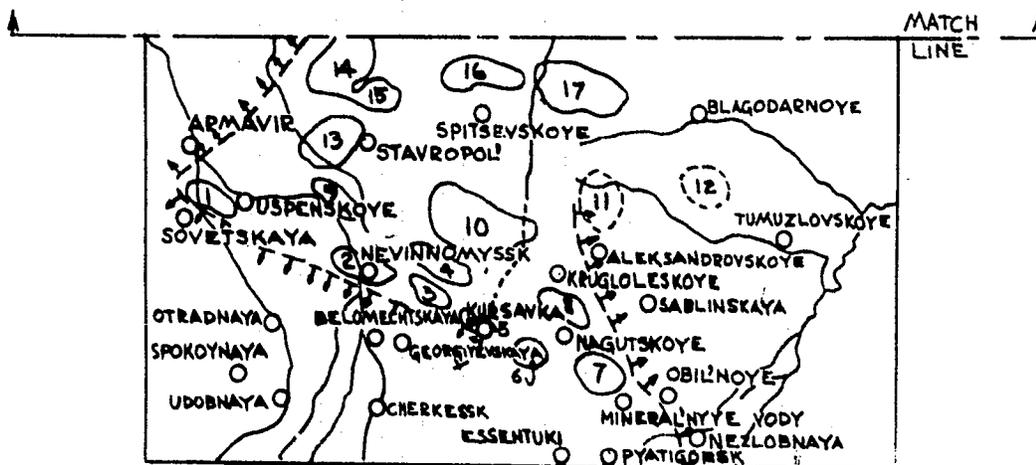
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Platform Folds of Stavropol', Their Types, and Distinctive Features (Cont.)



Platform Folds of Stavropol', Their Types, and Distinctive Features (Cont.) 15-1957-7-9174



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**Platform Folds of Stavropol', Their Types, and Distinctive Features (Cont.)**

Map showing location of the anticlinal structures near Stavropol' 1) Aleksandrovskiy, 2) Nevinnomyskiy, 3) Podgornenskiy, 4) Dubovo-Balkovskiy, 5) Surkul'skiy, 6) Surkul'sko-Kumskiy, 7) Kumagorskiy, 8) Northern Nagutskiy, 9) Nadzornenskiy, 10) Yangul'skiy uplift, 11) Kalinovskiy, 12) Southern Bladgodarnenskiy, 13) Sengileyevskiy, 14) Northern Stavropol'skiy, 15) Pelagiadinskiy, 16) Grachevskiy, 17) Petrovskiy, 18) Rashevatskiy, 19) Molotovskiy, 20) Takhtinskiy, 21) Kugul'tinskiy, 22) Ipat'yevskiy.

Card 7/7

D. A. Tugolesov

BIZNIGAYEV, A.D.

Basic features of geological development of the Stavropol Upland.  
Trudy Akad. naft. prom. no.3:36-48 '56. (MIRA 10:11)  
(Stavropol Upland--Geology)

BIZNYA, M.A.

Electric motors for high-speed piston compressors. Biul.tekh.-ekon.inform.  
Gos.nauch.-issl.inst.nauch.i tekhn.inform. 17 no.1:55-56 '64.  
(MIRA 17:2)

BIZNYA, V.M., inzh.; KOLPENSKIY, N.S., inzh.; PAVLUKHIN, O.I., inzh.;  
MATYUKOV, V.Ye., inzh.; RODIN, I.M., inzh.

Counterflow ventilation system of salient pole synchronous  
machines. Vest. elektroprom. 33 no.11:23-29 N '62.

(MIRA 15:11)

(Electric machinery, Synchronous--Cooling)

PTA Black

10

1306

977 051 1

*Lilias K, Muras K. Automatic Weighing Feeder for a Series of Carding Machines.*

*Automatyczny samozasilacz wazacy przy zespole przetworczych maszyn. Przemysl Wlokienniczy No. 4, 1951, pp. 143-148, 6 figs.*

*The importance of proper feeding of carding machines in wool-spinning mills. Description of an automatic feeding installation for carding machines. Functioning and adjustment of the weighing equipment. Analysis of operating, together with directives for application in future construction schemes.*

BIZON, Zdzislaw; PANKOW, Tadeuss; PLUZEK, Zenomena; WINID, Boguchwal;  
WISZNIEWSKA, Ewa

Introduction to the ecology of suicides in Krakow. (1st report).  
Neurol. neurochir. psychiat. pol. 13 no.1:62-74 '63.

1. Z Wojewodskiej Przychodni Zdrowia Psychicznego w Krakowie  
Dyrektor: lek. med. T. Pankow.  
(SUICIDE) (STATISTICS)

BA.

B. 200, A. K.

Section 1

Physiological analysis of mechanism of oscillation of the blood pressure arising as result of anaemia of the central nervous system. A. L. Dany and G. D. Sturnov (*J. Physiol., USSR*, 1963, 27, 621-631). A tube was led through the rabbits skull by means of which the intracranial pressure could be altered and recorded. Raising the intracranial pressure caused oscillations in blood pressure. These are due to two factors: (1) a pressor response accompanied by action currents in the cervical sympathetic nerve, and (2) a subsequent depressor reflex arising in the vaso-sensory areas. Measurements of the  $O_2$  saturation within the cerebral vessels suggested that the effect of increased cerebral pressure was due to anaemia. D. H. SMYTH

PROCESSED AND PROPERTY INDEX

B-II-9

*BC*

**Influence of the gaseous medium on hot vulcanization.** R. V. Bityov and M. K. Petrova (J. Gen. Chem. Russ., 1934, 4, 668-699).—The ratio combined S/free S in rubber vulcanized at 180–190° in various gases increases in the order:  $SO_2 < H_2O < H_2 < air < KOH < N_2 < CO_2 < CO + H_2O < CH_4O < H_2 + H_2O < vac. < NH_3 < NH_3 + H_2O < H_2S < H_2S + H_2O$ ; imbibition of  $C_2H_4$  OAs by the product varies in the reverse order. The free S content and the content of  $CHCl_3$  sol. substances fall by 50% when the pressure falls from 700 to 75 mm. during vulcanization in air. R. T.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

EXON BOWARD

EXON BOWARD

EXON BOWARD

BIZOV, N. P.

Meteorological Abst.  
Vol. 4 No. 5  
May 1953  
Bibliography on High  
Level Winds

✓ ME 34 551.557(584)  
Bizov, N. P. Nekotorye osobennosti v raspredelenii vetrov nad Ashkhabadom po dannym sharo-pilotnykh nabludeniil za 1928 g. [Some characteristics of the distribution of the wind over Ashkhabad from data obtained from pilot balloon observations 1928.] Ashkhabad, Turkmen Meteorological Bureau, 1929. 20 p. 8 tables, 5 figs. In Russian.—Work constitutes a first attempt to discuss some of the characteristics of airflow above SW regions of central Asia. Only ascents made at 0800 hrs in average sunny weather considered, total of 173. Mean wind speeds are given for year and for summer and winter half-year periods, and annual mean speeds given for winds in the four quadrants. West and NW winds represent 50% of the winds at 3 km, 70% at 6 km, and 86% at 10 km. Subject Headings: 1. Upper air winds 2. Ashkhabad, Turkmen S.S.R.—G.J.F.

P/002/60/000/003/003/003  
D001/D101

AUTHOR: Bizowski, Feliks

TITLE: Mechanics of deformable solids. Conference of the PAS  
institute of basic problems of engineering, department  
of mechanics of continuous media

PERIODICAL: Nauka Polska, no. 3, 1960, 205-218

TEXT: The fifth scientific conference organized by the Zakład Me-  
chaniki Ośrodków Ciągłych Instytutu Podstawowych Problemów Techniki  
PAN (Polish Academy of Sciences, Institute of Basic Problems of  
Engineering, Department of Continuous Media Mechanics) was convened  
in Gdańsk on August 14-28 1959. 107 delegates including 14 from  
foreign countries were in attendance. On the agenda were problems  
of deformable solids mechanics, especially non-classic problems of  
the theory of elasticity and ductility. All reports presented at  
this meeting concerned results of original research. The opening  
speech was delivered by W. Olszak, Professor. The following reports  
were presented at this meeting: (1) J. Kożeśnik, "A contribution

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Mechanics of deformable...

P/002/60/000/003/003/003  
D001/D101

to the theory of flat stresses variable in time; (2) J. Szmelter, "A method of lattice sequence using the membrane and plane application of the theory of elasticity"; (3) H. Zorski, "On projective formulation of the theory of elasticity"; (4) J. Golecki, "Displacement functions in case of an isotopic noncompressible elastic body"; (5) A. Lisowski, "The state of stress and deformation in the earth under the long strip footing in the light of the non-linear theory of elasticity"; (6) W. Nowacki, "Propagation of stresses in visco-elastic bodies caused by the influence of heat sources"; (7) W. Nowacki, "Non-established heat stresses in visco-elastic bodies"; (8) I. N. Sneddon, Z. Olesiak, "Thermal stresses in a space with ring-symmetric slot"; (9) I. N. Sneddon, "On fixed thermo-elastic problems for flat space and thick plate"; (10) H. Zorski, W. Piechocki, "Thermo-elastic problems in a wedge"; (11) Z. Mossakowska, "One-dimensional thermoelastic problem for an anisotropic medium"; (12) J. Ignaczak, "On the propagation of thermal stresses caused by the dynamic nucleus of thermoelastic deformation in a semi-infinite elastic body"; (13) J. Ignaczak, "On the propagation of thermal stresses in long metal bars"; (14) M. Sokołowski, "Thermal stresses

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Mechanics of deformable...

P/002/60/000/003/003/003  
D001/D101

in a sphere made from a visco-elastic material"; (15) E. Szczepaniak, "Some problems of the structure on deformable base theory"; (16) J. Mossakowski "Buckling of plates with cylindrical orthotropy"; (17) Z. Olesiak, "Several cases of mixed border conditions in unrestricted plates"; (18) J. Brill, "Fourier calculus and various border problems in the theory of anisotropic plates"; (19) S. Łukasiewicz, "Stresses and deflections in triangular supporting plates of variable rigidity"; (20) C. D. Oniaszwili, "On certain simplifications in variation method of solving the theory of shell problems"; (21) A. Kuhelj, "Stresses in thin elastic shells propped by three or more supports"; (22) A. Jaworski, "Action of forces concentrated in paraboloidal, ellipsoidal or coupled paraboloidal-ellipsoidal shells of revolution reinforced by stiffening ribs"; (23) P. Próchniak, "Uniform thickness conical shell under rotational symmetric load"; (24) W. Olszak, Z. Mróz, P. Perzyna, "On the modern trend of plasticity theory development"; (25) W. W. Sokołowski, "Longitudinal shifting of plastic masses between non-circular cylinders"; (26) W. Olszak, P. Perzyna, "Variant theorems in the general visco-elasticity theory"; (27) J. Murzewski, "The force concentrated in an unres-

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P/002/60/000/003/003/003  
D001/D101

Mechanics of deformable...

stricted elastic-plastic medium"; (28) M. Rogoziński, "Some problems of thermo-plasticity at spherical and cylindrical symmetry in case of radiation penetrating through the investigated medium"; (29) M. Życzkowski, "General measure of material and structure effort"; (30) T. Pełczyński, "The evaluation of investigation method of steel and steel structure inclination for brittle cracking"; (31) J. Murzewski, "Plastic and brittle behavior of near-homogeneous materials"; (32) J. Zawadzki, "Rheonomical bonds of non-continuous internal structure of a polymer"; (33) W. Olszak, S. Zahorski, "Non uniform orthotropic circle arc as an elasto-plastic problem"; (34) A. S. Grigoriev, "On bending of non-homogenous plates at plastic deformations"; (35) A. M. Kochetkov, "Some problems of flexible bar equilibria"; (36) A. A. Sawczuk, J. Rychlewski, "On boundary dependance in the theory of plastic shells"; (37) A. Borcz, "Experimental investigations on plastic strain in reinforced concrete slabs"; (38) Z. Mróz, "Orthotropic shell border load carrying capacity and stress resistance shaping"; (39) J. Lamparski, "The stability beyond yield point of slabs with longitudinal ribs"; (40) Z. Marciniak, "Power

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Mechanics of deformable...

P/002/60/000/003/003/003  
D001/D101

expenditure method in analysis of stationary process of sheet pressing"; (41) W. Szczepiński, "Stresses and velocities at wrap-forming and stretching of thin-walled, double curved shells"; (42) Z. Sobotka, "Circular-symmetric problems for loose and coherent media" (43) Cz. Szymański, "Rankine's and Prandtl's problems in case of a non-homogeneous medium and non-linear border curve"; (44) W. Urbanowski, "The structure of a deformed solid body"; (45) S. Zahorski, "Certain form of elasticity potential for rubber-like materials and its application for cases of circular-symmetric compression"; (46) M. Życzkowski, "Finite deflections in flowing buckling of compressed bars"; (47) S. Kaliski, Z. Dzygadło, "Self-induced vibrations of reinforced, non-elastic, orthotropic cylindrical shell in linearized supersonic flow"; (48) S. Kaliski, "Basic solutions in the dynamics of anisotropic bodies"; (49) S. Kaliski, "Propagation and reflexion of relief wave in bodies of rigid and curved relief characteristic"; (50) J. Naleszkiewicz, J. Kowalik, "On problems of motion stability of a rotating shaft"; (51) J. Kurlandzki, "On certain cases of diffraction and reflection of elastic waves in a plane"; (52) J. Więckowski, "On vibration problems of stationary

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Mechanics of deformable...

P/002/60/000/003/003/003  
D001/D101

elastic systems in liquids"; (53) S. Kaliski, "Phenomenological equations of joint mechano-thermo-magnetic fields in anisotropic media and certain solutions of the problem of wave propagation in a magnetic field; [Abstracter's note: There is an obvious misprint in spelling in Polish of the word "fenomonologiczne", it should read "fenomenologiczne"]; (54) R. Gutowski, "On a certain method of integration of non-linear vibration equation of a system with one degree of freedom"; (55) A. Bobeszko, J. Kacprzyński, "The vibration of a slender body in an aerodynamic supersonic relative wind"; (56) P. Perzyna, "Stress waves in a homogeneous elastic-viscous-plastic medium"; (57) P. Perzyna, "Propagation of elastic-plastic waves in a non-homogeneous medium"; (58) Z. Kączkowski, "The influence of lateral forces and moments of inertia on vibration of anisotropic plates"; (59) K. Borsuk, "Own vibrations of round plates of a cylindrical orthotropy"; (60) J. Kožešnik, "A new way of analytical-graphical calculations of the possibilities of higher order critical revolution speeds for shafts and impellers"; (61) I. Babuska, "Application of integral transformations in the theory of partial difference equations"; (62) J. Litwiniszyn, "The time-space processes in sto-

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Mechanics of deformable...

P/002/60/000/003/003/003  
D001/D101

chastic media"; (63) J. R. M. Radok, "On digital modelling of physical processes". The conference was concluded by W. Olszak, Professor, saying in general that the conference was a success because of the large number and high standards of reports dealing with a wide range of subjects. He pointed out, however, that the majority of them were based on a mathematical approach to the problems and not enough on practical experimental research. Words of appreciation were directed towards the organizers of the conference and in particular to the administrative staff of same, M. Sokołowski, Docent, Doctor, and M. Urbanowska and J. Zielińska.

ASSOCIATION: Polska Akademia Nauk, Zakład Mechaniki Ośrodków Ciągłych, IPPT (Polish Academy of Sciences, Institute of Basic Problems of Engineering, Department of Continuous Media Mechanics)

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PROCESSES AND PROPERTIES INDEX

Reactivity of solid fuels at high temperatures. I. P. Bizunov. *Coke & Chem.* (U. S. S. R.) No. 2-3, 07-10 (1966). With Mezger and Pistor's method (cf. C. A. 21, 487) no difference was found between the reactivities of coke and anthracite. Reactivity varies with temp. Conclusion: Lab. tests are useless in detg. combustibility. H. C. A.

ASS. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

E-2

BIZYAKIN, Nikolay Tikhonovich; RODIONOV, Leonid Yevgen'yevich;  
BYKHOVSKAYA, S.N., red. izd-va; BERESLAVSKAYA, A.Sh.,  
tekhn. red.; GALANOVA, V.V., tekhn. red.

[Shift measurements in open-pit mining] Smennye zamery ot-  
krytykh gornyx robot. Moskva, Gosgortekhzdat, 1961. 44 p.  
(MIRA 15:7)

(Strip mining--Labor productivity)

BIZYAYEV, A.F., aspirant

Tracheotomy and anesthesia. Stomatologiya 41 no.4:48-52 JI-Ag '62.  
(MIRA 15:9)

1. Iz kafedry khirurgicheskoy stomatologii (sav. - prof. A.I.  
Yevdokimov) Moskovskogo meditsinskogo stomatologicheskogo instituta.  
(INTRATRACHEAL ANESTHESIA)

**BIZYAYEV, A.F., aspirant**

Dynamic changes in blood oxygenation during endotracheal  
anesthesia in stomatological patients. Stomatologiya 42 no.4:  
35-39 JI-Ag'63 (MIRA 17:4)

1. Iz kafedry khirurgicheskoy stomatologii ( zav. - prof.  
A.I. Yevdokimov) Moskovskogo meditsinskogo stomatologicheskogo  
instituta ( dir. - dotsent G.N. Beletskiy).

YERMOLAYEV, I.I., kand. med. nauk; BIZYAYEV, A.F., aspirant

External massage of the heart in cardiac arrest during an  
operation. Stomatologiya 42 no.4:90-92 J1-Ag'63 (MIRA 17:4)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - prof.  
A.I. Yevdokimov) Moskovskogo meditsinskogo stomatologicheskogo  
instituta.

FOMIN, K.F., dotsent; BIKENIN, B.S., kand.med.nauk; BIZYAYEV, A.I.,  
assistant; NUREYEV, G.G., vrach

Some aspects of work of dermatovenereological services during  
the 40 years of existence of the Tatar A.S.S.R. Vest.derm.i  
ven. 35 no.1:79-82 Ja '61. (MIRA 14:3)

1. Iz kafedry kozhnykh i venericheskikh bolezney (i.o. zav. -  
dotsent K.F. Fomin) Kazanskogo meditsinskogo instituta (dir. -  
dotsent R.A. Vyaselev) i Respublikanskogo kozhno-venerologi-  
cheskogo dispansera (glavnyy vrach A.V. Maksyutova).  
(TATAR A.S.S.R.--DERMATOLOGY)

BIZYAYEV, A.I.

Pathogenesis of allergy in skin diseases. Nauch. trudy Kaz. gos.  
med. inst. 14:107-108 '64. (MIRA 18:9)

1. Kafedra kozhnykh i venericheskikh bolezney (zav. prof. G.G.  
Kondrat'yev) i kafedra patologicheskoy fiziologii (zav. - prof.  
M.A.Yerzin) Kazanskogo meditsinskogo instituta.

BEZYAYEV, A.I., inzh.

Continuous laying in situ foundations under the piles of industrial  
buildings. Prom.stroi. 42 no.7:21-24 '65.

(MIRA 18:8)

BIZYAYEV, F.N.

Fish Culture

Stocking the TSimlyanskaya reservoir with breeding fish of commercial varieties.  
Ryb. khoz., 28, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, AUGUST 1952 1953. Unclassified.



BIZYAYEV, F. N.

"The Biology and Economic Importance of the Don Sheatfish." Cand Biol Sci,  
Rostov U, Rostov-on-Don, 1953. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

BIZYAYEV, I. A.

Bizyayev, I. A. - "Organizational problems of forest cultivation in the steppe,"  
Les Khoz-vo, 1948, No. 3, p. 9-10

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

BIZYAYEV, I.A.

Astrakhan Province - Reclamation of Land  
Reclamation of sands in the Astrakhan area  
Les. khoz. 5 no. 8, 1952

ANDRIANOV, S.N., kand. sel'khoz. nauk; D'YACHENKO, A.Ye., kand. sel'-khoz. nauk; GVOZDKOV, P.Z., dvazhdy Geory Sotsialisticheskogo Truda; BIZYAYEV, I.A., inzh.-lesomeliorator; REDINA, V.F., agrolesomeliorator; ADEL'FINSKAYA, Ye.N., red.; SAYTANIDI, L.D., tekhn. red.

[Shelterbelt afforestation in the steppe] Polezashchitnoe lesorazvedenie v stepi. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1962. 108 p. (MIRA 15:5)

1. Predsedatel' kolkhoza "Deminskiy" Novo-Annenskogo rayona Volgogradskoy oblasti (for Gvozdokv).  
(Windbreaks, shelterbelts, etc.)

BIZYAYEV, I.N.; MOTENKOV, Yu.M.

Results of the introduction of *Ctenopharyngodon idella*,  
*Mylopharyngodon piceus*, *Hypophthalmichthys molitrix* and *Aristichthys*  
*nobilis* in open bodies of water of the Azov-Kuban region. Trudy  
VNIRO 55:125-132 '64. (MIRA 18:4)

S/114/60/000/012/008/009  
E194/E484

AUTHOR: Bizyayev, Ye.V., Engineer

TITLE: Gas Turbine Installation ГТ-25-700-1 (GT-25-700-1)

PERIODICAL: Energomashinostroyeniye, 1960, No.12, p.48

TEXT: The Leningrad Metal Works has completed manufacture of a single shaft stationary gas turbine of 25 MW intended to drive an electric generator. The equipment can be provided with a heat exchanger for heating water or generating steam. The output of heat for district heating purposes can be  $30 \times 10^6$  kcal/hour. The gas temperature at turbine inlet is  $700^{\circ}\text{C}$ , the total compression ratio is 10, the degree of regeneration is 0.8, the overall efficiency at rated load is 28.4%. Certain new features of the equipment are briefly described.

Card 1/1

BIZYAYEV, Ye.V.

The GT-25-700-1 gas-turbine unit. Biul.tekh.-~~kon.inform.~~  
no.8:52-56 '61.

(Gas turbines)

(MIRA 14:8)

L 9823-66 EPA/ENP(f)/EPF(n)-2/T-2/ETC(m) WW  
ACC NR: AP6003741

SOURCE CODE: UR/0104/65/000/004/0027/0032

AUTHOR: Ol'khovskiy, G.G. (Engineer); Frenkel', L.D. (Engineer); Bizyayev, Ye. V. (Engineer); Rachin, E.V. (Engineer)

ORG: none

TITLE: First results of setting up and usage of the 25 Mw gas turbine system 43  
B

SOURCE: Elektricheskiye stantsii, no. 4, 1965, 27-32

TOPIC TAGS: electric power engineering, gas turbine, electric power plant, electric power production

ABSTRACT: A description of the type GS-25-700 gas turbine power system, and the results of the starting-testing, and first usage periods of the system. The turbine is fueled with natural gas, has a coefficient of fuel heat usage of 57% with the regenerator disconnected. The turbine passed a period of setting up and test usage of 2,200 hours. It was found to be simple in operation, its noise does not exceed health norms. A power of 21.5 Mw at an efficiency of about 24% was attained. The planned power was not attained, the efficiency of the turbine and compressor was below plan, the resistance of some sections of the gas-air course and expenditure of air for cooling and back compression exceeded plan. The main difficulties in usage resulted from compressor contamination and deposition of sediment in the air cooler tubes. It is hoped that further work will make the system capable of attaining the design power with high reliability.

Card 1/2

UDC: 621.438

L 9823-66

ACC NR: AP6003741

Orig. art. has: 4 figures. [JPRS]

SUB CODE: 09 / SUBM DATE: none /

HW  
Card 2/2

SPERANSKIY, G. A., inzh.; BIZYAYEV, V. F.

High-frequency induction hardening of small steel components.  
Trudy NIITVCH no. 1/2:101-115 '60. (MIRA 17:7)

L 17617-66 EWP(f)/EPF(n)-2/T-2/ETC(m)-6 WW

SOURCE CODE: UR/0413/66/000/002/0142/0142

ACC:NR: AP6006398

INVENTOR: Frenkel', L. D.; Chebanenko, N. I.; Chernin, Kh. N.; Bizyayev, Ye. V.;  
Tat'yankin, A. P.

ORG: none

TITLE: Double-shaft gas turbine<sup>4455</sup> installation. Class 46, No. 178245. [announced  
by Leningrad metal factory im. XXII Congress KPSS (Leningradskiy metallicheskiy  
zavod).]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 142

TOPIC TAGS: gas turbine, engine turbine system, turbine design

ABSTRACT: The proposed double-shaft gas turbine unit is designed to reduce the  
length of the turbine ducts and the hydraulic losses during flow deflection in them.

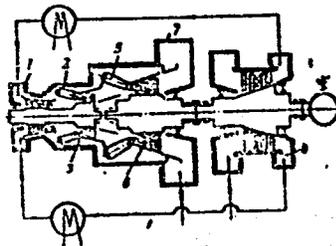


Fig. 1. Gas turbine unit

- 1 - High-pressure compressor; 2 - high-pressure preheat stage; 3 - high-pressure turbine; 4 - low-pressure compressor; 5 - low-pressure preheat stage; 6 - low-pressure turbine; 7 - external cylinder.
- UDC: 621.438.002.72

Card 1/2

L 17617-66

ACC NR: AP6006398

In this design, both shafts are located concentrically (see Fig. 1) and all the other components, except for the low-pressure compressor, are housed in one cylinder. Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 22Feb65/ ATD PRESS: 4210

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(HELMINTH INFECTIONS, epidemiology.

\*Lithuania, berries & vegetables as spreading factor)

(VEGETABLES,

\*spreading of helminthiasis in Lithuania)

(FRUITS,

\*spreading of helminthiasis in Lithuania)

*correction from 7DD*

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(COLD, effects,

on Ascaris & Trichinelloidea eggs)

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eggs, eff. of cold on vitality)

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electrophoresis (Ser))

(BCG VACCINATION, therapeutic use,

pulm. tuberc., eff. of oral admin. on blood proteins,  
electrophoresis (Ser))

(BLOOD PROTEINS, in various diseases,

tuberc., pulm., eff. of chemother. & BCG per os on  
electrophoretic changes (Ser))

POPOVIC, J.; IABAN, M.; MILETIC, V.; BJEGOVIC, M.; MACANOVIC, J.; PRASO, R.

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B3  
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